

### ABSTRACT OF THE DISCLOSURE

An enhanced visibility composition for implantation from a remote source, so that the composition can be readily observed under fluoroscopy or other imaging techniques. The compositions include a biocompatible matrix, such as a hard tissue implant material for example, and radiopaque particles mixed in the matrix. The radiopaque particles have a particle size between about 120 $\mu$  and 2200 $\mu$ , more preferably about 350 $\mu$  and 2200 $\mu$ , even more preferably between about 450 $\mu$  and 1600 $\mu$ , and most preferably between about 570 $\mu$  and 1150 $\mu$ . Preferably the hard tissue implant and the radiopaque particles are formed or prepared in a slurry.

Optionally, the enhanced visibility composition may further include additional radiopaque particles or contrast particles mixed in with the composition, which have a particle size between about 120 $\mu$  and 350 $\mu$ , preferably between about 120 $\mu$  and 250 $\mu$ .